

SECRETDPD-5749-59
21 August 1959**MEMORANDUM FOR THE RECORD****SUBJECT: ELINT equipment for P2V-7**

1. Granger Associates has been the primary contractor for the development of new ELINT gear for the P2V-7 aircraft. They have developed receiving systems for four frequency ranges, together with appropriate antennas and auxiliary equipment. Three of the systems have been of the "Wide-open" type and the fourth, covering 10,000 to 40,000 megacycles (K band), has been of the tunable variety. This "K" band receiver is expected to be the first operational receiver in this frequency range in this country.

2. As expected with any new development, these equipments have had their share of difficulties. The three "Wide-open" systems were developed about a year ago under the guidance of personnel now in DPD. They were thoroughly tested and evaluated during Phase V of the P2V-7 testing program at Eglin Air Force Base, and found to be completely satisfactory. These systems have been installed in the four operational aircraft with no adverse comments being received from the field. However, on the recent ferry flight of the test bed from Lockheed to Eglin, there were several failures of Granger equipment that have not been explained as yet. If these failures are the result of design deficiencies, remedial action must be taken immediately.

3. The "K" band receiver is a current development, not yet accepted. It has likewise been developed under the guidance of DPD. The receiver was delivered to Lockheed on 17 August 1959 for installation in the test bed aircraft before ferrying to Eglin. During checks at Lockheed, several deficiencies appeared that must be corrected before the receiver is accepted. Among these are heat problems and spurious response problems. After discovering the deficiencies, the receiver was immediately returned to Granger for further work. It is imperative that these problems be corrected and the receiver delivered to Eglin for test and evaluation during the Phase VI test program, since this phase completes all major P2V testing.

4. The most likely solution to the above problems appears to be to sit down with Granger and thoroughly thrash out each problem. I have a number of ideas of things that would help but the only answer is to try them and see the result.

DPD-DD/P [redacted] amob

Distribution:

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DEVELOPMENTS OFFICER**SECRET**

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